No.



8100051

# THUE MUNICIPAL SHAMPED SHAMPES OF AND FIRE

TO ALL TO WHOM THESE PRESENTS SHALL COME:

# Herry-Morse Seed Company

Willievens, there has been presented to the

#### Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF eighteen years from the date of this grant, subject to the payment of the required fees and periodic replenishment of viable basic seed of the variety in a public repository as provided by LAW, the right to execute others from selling the variety, or offering it for sale, or reproducing it, corting it, or exporting it, or using it in producing a hybrid or different therefrom, to the extent provided by the Plant Variety Protection Act 542, as amended, 7 u.s.c. 2321 et seq.)

LETTUCE

'FM 8248'

In Estimony Whercot, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 26th day of May in the year of our Lord one thousand nine hundred and eighty-three.

2

R Block

Lecretary of Agriculture

Attest

Kensett H. Evan

Plant Variety Protection Office Grain Division

Agricultural Marketing Service



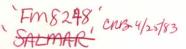


8100051 FM 8248'





UNITED STATES DEPARTMEN AGRICULTURAL MARK LIVESTOCK, POULTRY, GRA	ETING SERVICE			FORM APPROVED OMB NO. 40-R3822
APPLICATION FOR PLANT VARIE INSTRUCTIONS: See Reverse,		N CERTIFICATE	No certificate for pla be issued unless a co has been received (5 l	ant variety protection may
1a. TEMPORARY DESIGNATION OF VARIETY	1b. VARIETY NAME			AL USE ONLY
E8248		HR FM 8248	PV NUMBER	100051
2. KIND NAME	3. GENUS AND SPE		FILING DATE	TIME A.M.
HEAD LETTUCE	Lactuca	Sativa	2/9/81 FEE RECEIVED	12:30 P.M.
4. FAMILY NAME (BOTANICAL)	5. DATE OF DETER	RMINATION	\$ 500.00	2/9/81
Compositae	February	y 1978	\$ _250.00	4/22/83
6. NAME OF APPLICANT(S)	7. ADDRESS (Street	and No. or R.F.D. No.,	City, State, and ZIP	8. TELEPHONE AREA
FERRY-MORSE SEED COMPANY	Drawer	rry-Morse Way		CODE AND NUMBER
Haruo Sakamoto, Breeder		in View, CA 94	1042	(415)967-6973
9. IF THE NAMED APPLICANT IS NOT A PE ORGANIZATION: (Corporation, partnersh) CORPORATION	RSON, FORM OF ip, association, etc.)	10. IF INCORPORAT DATE OF INCOR CALIFORN	ED, GIVE STATE AND PORATION IIA	11. DATE OF INCOR- PORATION 7 April 1969
12. NAME AND MAILING ADDRESS OF APPI ALL PAPERS: Donald V.	Brondyke, Ex	ATIVE(S), IF ANY, TO Secutive V.P.,	erve in this applic	ATION AND RECEIVE d Company
	-Morse Way	<del>/iew, CA 940</del> 42		J. THOMPSON GX
Yer	LIETTER OF MA	77,1981	2191 SAN	JUAN ROAD
13. CHECK BOX BELOW FOR EACH ATTACH			SAN JUAN	BAUTISTA, CA 9504
X 13A. Exhibit A, Origin and Bree	ding History of the	Variety (See Section 5	52 of the Plant Variety	Protection Act.)
X 13B. Exhibit B, Novelty Statem				
X 13C. Exhibit C, Objective Descri	iption of the Variety	(Request form from	Plant Variety Protecti	ion Office.)
x 13D. Exhibit D, Additional Desc	cription of the Variet	ty.		
14a. DOES THE APPLICANT(S) SPECIFY THAT SEED? (See Section 83(a). (If "Yes," answe	T SEED OF THIS VAR er 14B and 14C below.)	TETY BE SOLD BY VAR	RIETY NAME ONLY AS	A CLASS OF CERTIFIED
14b. DOES THE APPLICANT(S) SPECIFY THAT LIMITED AS TO NUMBER OF GENERATION	T THIS VARIETY BE ONS?	14c. IF "YES," TO 14 TION BEYOND B	B, HOW MANY GENERA	ATIONS OF PRODUC-
YES NO		FOUNDATION	REGISTERED	CERTIFIED
15a. DID THE APPLICANT(S) FILE FOR PROT name of countries and dates.)	ECTION OF THIS VAR	RIETY IN OTHER COU	NTRIES? YES	X NO (If "Yes," give
15b. HAVE RIGHTS BEEN GRANTED THIS VA	RIETY IN OTHER CO	UNTRIES? YES	X NO (If "Yes,"	give name of countries
16. DOES THE APPLICANT(S) AGREE TO THE	E PUBLICATION OF H	US/HER /THEIR) NAME		
JOOHNAL! X TES	NO			
<ol> <li>The applicant(s) declare(s) that a viable replenished upon request in accordance</li> </ol>	e sample of basic seed with such regulation	d of this variety will b ns as may be applicab	e furnished with the a le.	pplication and will be
The undersigned applicant(s) is (are) th variety is distinct, uniform, and stable a 42 of the Plant Variety Act.	e owner(s) of this se as required in Section	xually reproduced no 141, and is entitled to	vel plant variety, and l o protection under the	believe(s) that the provisions of Section
Applicant(s) is (are) informed that false	representation here	in can jeopardize_prot	ection and result in p	enalties.
1/28/81		FERR	MORSE SEED TO	MPANY
(DATÉ)		D. V. I		CANT) TIVE V.P.
,			J	$\rightarrow$ 1
(DATE) FORM GR-470 (1-78)		(5	SIGNATURE OF APPLI	SANT)



VARIETY: (E8248) (formerly 3C-X177-(DM)Ms(C)Ms#1K(DM)1(A)3(C)Ms)

EXHIBIT A: Origin and Breeding History of the Variety

E8248 originated through the pedigree method of breeding as an  $F_7$  mass from the cross of Vanguard as the seed parent and Montemar as the pollen parent. The cross was given the pedigree designation 3C-X177. The cross was made in the greenhouse at San Juan Bautista, California in the Spring of 1970.

The  $F_1$  seed, 3C-X177, was planted in the greenhouse at San Juan Bautista, California in January, 1971. Seedlings were inoculated with spores of the Downy Mildew fungus,  $\underline{\text{Bremia}}$  lactucae Regel, 1943, the strains for which the variety Montemar showed resistance. Seed was massed of 8  $F_1$  plants that showed resistance to Downy Mildew.

The  $F_2$  generation, 3C-X177-(DM)Ms, was planted in the field at San Juan Bautista, California in late 1971 and evaluated in the Spring of 1972. 62 selections were made for desirable horticultural qualities and seed produced of the  $F_3$  generation. Seed from 21 of the 62 selections (those that contained the gene for resistance to Downy Mildew) were massed.

The F<sub>3</sub> generation, 3C-X177-(DM)Ms(C)Ms#1, was planted in the field at San Juan Bautista, California in the fall of 1973 and evaluated in the Spring of 1974. 13 selections were made for smooth leaf texture and medium dark-green color. In late 1975, in the San Juan Bautista greenhouse, the progeny of the 10th selection in the F<sub>3</sub> generation, 3C-X177-(DM)Ms(C)Ms#1K, were demonstrated to be homozygous for resistance to the Downy Mildew strain(s) prevalent at the time in the Salinas Valley. Seed was harvested from one of the F<sub>4</sub> plants that showed Downy Mildew resistance.

 $F_5$  seed from the Downy Mildew screening, 3C-X177-(DM)Ms(C)Ms#1K(DM)1, was planted in a field trial in Yuma, Arizona in the Fall of 1975. The plants were evaluated in March, 1976 and received a high field rating. 5 selections of the 'Vanguard' type were saved for seed.

F<sub>6</sub> progeny rows of the 1976 Yuma selections were planted in the Imperial and San Joaquin Valleys of California and in Yuma, Arizona in the Fall of 1976 for evaluation in early Spring of 1977. The 3rd progeny selection from the 1976 planting, 3C-X177-(DM)Ms(C)Ms#1K(DM)1(A)3, consistently outperformed its sister progenies.

Remnant seed from the F<sub>6</sub> generation, 3C-X177-(DM)Ms(C)Ms#1K(DM)1(A)3, was planted in April, 1977 on an isolation plot outside of Hollister, California to produce sufficient seed for wider sampling. The seed harvested, 3C-X177-(DM)Ms(C)Ms#1K(DM)1 (A)3(C)Ms, tested LMV-free (0/30,000). In February, 1978, this seed was given an advanced experimental designation, E8248, to establish the line for more wide-scale commercial evaluation.

In the Spring of 1979, seed of 3C-X177-(DM)Ms(C)Ms#1K(DM)1(A)3(C)Ms with the new designation E8248, was planted in the Five Points area of California to increase seed for possible Stock Seed and/or sampling purposes.

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AMS, GRAIN DIV.

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### EXHIBIT A (con't)

5-m 8248' ens 4/25/83

Since February, 1978, when the decision was made to test E8248 for commercial status, E8248 has been grown in 8 trials for performance evaluation. No variant type plants were noted amongst a total of 581 plants. In addition, in 3 small block plantings which totalled over 1/10 acre in planting area and several hundred plants, no variant plants were ever recorded. Progeny selections of E8248 since the increase in 1977 have consistently produced plants similar to those of E8248; no variant types have been recorded. The variety is considered to be genetically stable for the significant characteristics of the variety.

The control of the co



VARIETY: (E8248) (formerly 3C-X177-(DM)Ms(C)Ms#1K(DM)1(A)3(C)Ms)

EXHIBIT : Data Indicative of Novelty

E8248 has shown commercial potential for early spring harvest in the Southwest desert and San Joaquin Valley areas of lettuce production and for spring harvest in the Central Coast area of California. E8248 most closely resembles the variety Vanguard in the desert, and Salinas in the Central Coast.

The following measurements were taken in 1980 under field conditions at Yuma, Arizona, San Joaquin Valley, California, and San Juan Bautista, California, and under greenhouse conditions at San Juan Bautista, California:

		<b>VANGUARD</b>	E8248	d	s <sup>2</sup>	t	P
1.	Frame size at Yuma (10 paired comparisons)	49.3 cm Range(44.5-55.9)	45.0 cm	4.1	13.18	3.61	<.01
				0 /0	2 (2	5.70	
2.	Frame size at San Joaquin Valley	42.4 cm	39.2 cm	3.43	3.60	5.72	<.01
	(10 paired comparisons)	Range (40.6-44.5)	(36.8-43.2)				
3.	Frame size in San Juan Bautista greenhouse	31.7 cm	26.3 cm	8.63	56.10	3.99	<.01
	(12 paired comparisons)	Range(21.0-47.5)	(18.0-36.0)				
4.	Head shape Index	0.91	0.92	0.048	0.0007511	5.53	<.01
(Length/width ratio) at Yuma(10 paired comparison	)Range(0.81-0.98)	(0.87-0.96)					
H		SALINAS	E8248	d	s <sup>2</sup>	t	P
5.	Frame size at San Juan Bautista (field)	44.9 cm	44.0 cm	2.39	1.93	5.44	<.01
Ï	(10 paired comparisons)	Range (38.0-48/7)	(41.0-47.2)				
6.	Core length at San Juan	38.2 mm	29.1 mm	8.9	26.21	5.21	<.01
Bautista (field) (10 paired comparisons)		Range(31.0-46.0)	(19.0-34.0)	9,1	5≃ 5,12	1.738	.2<
7.	Head Shape Index	0.96	0.93	0.093	0.004423	4.42	<.01
	(length/width ratio) at San Juan Bautista(field)						
	(10 paired comparisons)	Range(0.84-1.05)	(0 7( 1 10)				

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VARIETY: Salmar (formerly E8248, 3C-X177-(DM) Ms(C) Ms#1K(DM)1(A)3(C) Ms)

ADDENDUM TO EXHIBIT D: Data Indicative of Novelty

Salmar most closely resembles the variety Salinas in the Central Coast growing area of California.

The following measurements were taken in the Spring and Summer of 1981 at San Juan Bautista, CA. under field conditions.

## Planting No. 1 (Planted 3/11/81)

Sa	linas	Salmar	s <sup>2</sup>	t	P
	.5 cm. ge 38.5-47.0)	51.4 cm. (43.5-57.0)	11.56	8.29	<.01
No. days when 50% of plants had seedstalks greater than 30 cm. (10 non-paired sample	120 days	102 days			
No. days when 50% of plants had flowers in bloom. (10 non-paired samples)	138 days	120 days			

# Planting No. 2 (Planted 7/7/81)

	Salinas	Salmar	s <sup>2</sup>	t	P
Frame size (20 non-paired comparisons)	37.0 cm. (Range 29.5-45.5)	42.6 (32.0-49.2)	20.8	3.88	<.01

The following color comparisons were made in the summer of 1981 at San Juan Bautista, CA. under field conditions. Planting date was 6/24/81. The ISCC-NBS Centroid Color Chart was used.

VARIETY	READING	DESCRIPTION
Salmar	120	Medium Yellow green
Vanguard	125	Medium Olive green

r (197) . . . . . . . (5) - 10-11/2 E824D, 20-1177-(17) /4(0) /4(17) (17) (17) /4(17) (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4 (17) /4

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FM8248 " ENB 4/25/83

<u>VARIETY</u>: £8248 (formerly 3C-X177-(DM)Ms(C)Ms#1K(DM)1(A)3(C)Ms

EXHIBIT B: Botanical Description of the Variety

E8248 is a black-seeded, crisphead lettuce that can best be described as a 'Vanguard' type in the Imperial Valley/Yuma areas of production and a 'Salinas'-type in the Salinas Valley area of California. E8248 has the ability to produce medium-large heads in the desert areas during the Winter and in Coastal Central California during early spring.

In comparison to 'Vanguard' in the desert, E8248 is less vigorous and is a shade paler dark gray-green. Leaves are much smoother textured than Vanguard. Leaf margins are shallowly dentate and moderately curled. Butts are flat and much less ribby than Vanguard. Color extends well to the cores. Heads are round to very slightly oblate, but are consistently very slightly more rounded than Vanguard. In addition to a more refined appearance of E8248 over Vanguard, the most novel characteristic is E8248's resistance to certain strains of Downy Mildew (Bremia lactucae, Regel, 1943) for which Vanguard shows no resistance.

In comparison to the variety 'Salinas' in the Central Coast area of California, E8248 produces heads with smoother, though slightly more rounded, butts on a frame that is slightly smaller. Head shape is very slightly more oblate than Salinas.

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ASSIGNMENT OF INTELLECTUAL PROPERTY

WHEREAS, HARRIS MORAN SEED COMPANY, a corporation duly organized and

existing under the laws of the State of Maryland, having its principal place of business at 4511

Willow Road, Suite 3, Pleasanton, California 94588 ("Assignor"), has, pursuant to that certain

Bill of Sale and Assignment dated as of June 30, 1997, transferred to FERRY-MORSE SEED

COMPANY (CALIFORNIA), a corporation duly organized and existing under the laws of the

State of California, having its principal place of business at 555 Codoni Avenue, P.O. Box 4938,

Modesto, California 95352-4938 ("Assignee"), all of the intellectual property Assignor had

adopted, used and was using as of the effective date of this Assignment, including without

limitation, the intellectual property represented by the United States Plant Variety Protection

Certificates of Assignor identified on Schedule A hereto (collectively, the "Property"); and

WHEREAS, on the date hereof, Assignee has changed its name to "Harris Moran Seed

Company":

NOW, THEREFORE, effective by this instrument as of the close of business on

June 30, 1997, and for good and valuable consideration, receipt of which is hereby

acknowledged, Assignor hereby assigns to Assignee any and all right, title and interest

worldwide in and to the Property and any and all recordations thereof, including, but not limited

to, the use of the Property in any manner, all benefit of any and all prior use of the Property, and

any and all rights to initiate claims or proceedings for past, present or future infringements of

Assignor's rights, title and interest in and to the Property.

Dated: as of June 30, 1997

HARRIS MORAN SEED COMPANY

NEWY01A:171511:1:09/26/97 26757-1



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# CERTIFICATE OF AMENDMENT

OF THE

ARTICLES OF INCORPORATION

OF

FILED
In the office of the Secretary of State
of the State of California

JUN 3 0 1997

TS:00

FERRY-MORSE SEED COMPANY (CALIFORNIA)
(a California corporation)

To the Secretary of State State of California

Pursuant to the provisions of the General Corporation Law of the State of California, the undersigned officers of FERRY-MORSE SEED COMPANY (CALIFORNIA), a California corporation (the "Corporation"), do hereby certify as follows:

- 1. The name of the Corporation is Ferry-Morse Seed Company (California).
- 2. Article One of the Corporation's Articles of Incorporation, which relates to the name of the Corporation, is hereby amended in its entirety to read as follows:

One. The name of this Corporation is: HARRIS MORAN SEED COMPANY.

- The amendment herein provided for has been approved by the Corporation's Board of Directors.
- 4. The amendment herein provided for was approved by the written consent of the Corporation's sole shareholder in accordance with the provisions of Section 902 of the California General Corporation Law. The total number of outstanding shares of the corporation is 5,000.

IN WITNESS WHEREOF, each of the undersigned does hereby declare under the penalty of perjury that he or she signed the foregoing Certificate of Amendment as of June 30,



1997, in the Town of Modesto, State of California, in the official capacity set forth beneath his or her signature and that the statements set forth in this certificate are true of his or her own knowledge.

Yves Queste, President

Helen Andritsakis, Secretary





SECRETARY OF STATE



I, *BILL JONES*, Secretary of State of the State of California, hereby certify:

That the attached transcript has been compared with the record on file in this office, of which it purports to be a copy, and that it is full, true and correct.

IN WITNESS WHEREOF, I execute this certificate and affix the Great Seal of the State of California this

JUN 3 0 1997



Bill mes

Secretary of State



		CLOSELY RESEMBL						
CHARACTER			NAME OF VARIETY					
Leaf color			Salinas, Van	nguard		A PARTY OF THE PAR		
Leaf pigmentati	ion		Salinas, Van	nguard				
Leaf shape			Salinas, Va	anguard				
Plant size			Salinas		A THE SAME AND A SAME	SELECTION OF THE SELECT		
Head size			Salinas		S. C. Company			
VARIETY	NO. OF DAYS TO HEAD MATURITY UNDER WINTER CROPPING	LOCATION	NO. OF DAYS TO HEAD MATURITY UNDER SUMMER CROPPING	LOCATION	NO. OF DAYS TO SEED STALK EMERGENCE UNDER SUMMER CROPPING	Control of the Contro		
Submitted	111	Yuma, Arizona	100	Salinas Valle California	142	San Juan Ghse California		
Similar	112	Yuma, Arizona	100	Salinas Valle	y 163	(Planted 11/8/79		
Name of similar variety	VANO	GUARD	SALI	NAS	SALINAS			

#### INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for completing this form:

- 1. C. M. Rodenburg, 1960, <u>Varieties of Lettuce</u>, <u>An International Monograph</u>, Institunt Voor de Veredeling van Tuinbouwgewassen, Wageningen, Holland.
- 2. L. L. Morse, 1930, Field Notes on Lettuce, published by Ferry-Morse Seed Co.

LEAF COLOR: Nickerson's or any recognized color fan may be used to determine the leaf color of the described variety. The following lettuce varieties may be used as a guide to identify the eight colors listed on the form.

Color	Variety	
Red	"Salad Trim"	FEB 9 1981
Reddish-brown	"Ruby"	
Yellow	"Salad Bowl"	
Yellowish-green	"Oakleaf"	
Greyish-green	"White Boston"	
Bluish-green	"Bibb"	
Dark-green	"Imperial" group	
Very dark green	"Deer Tongue"	

PLANT SIZE: The following varieties may be used as a guide to identify the plant type size:

TYPE	COMPARABLE VARIETIES				
TYPE	SMALL	MEDIUM	LARGE		
Cutting (leaf) Stalk (stem)	Boston-Curled Celtuce	Prize Head	Grand Rapids		
Cos Crisphead Butterhead Latin	Express Mignonette Tom Thumb Sucrine	Parris Island Hanson (Merit) Big Boston Creole	Giant White Climax Mammoth Butter Deer Tongue		

GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782

#### OBJECTIVE DESCRIPTION OF VARIETY

INSTRUCTIONS: See reverse. (LETTUC	E)	
NAME OF APPLICANT(S)	FOR OFFICIAL USE ONL	Y
FERRY-MORSE SEED COMPANY, Haruo Sakamoto,  ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)	297 - 1 - 8100	051
111 Ferry-Morse Way Drawer 7274	VARIETY NAME OR TEMPORARY DESIGNATION	
Mountain View, CA 94042	E8248 = SALMAK	2 Fm 82

Place the appropriate number that describes the varietal character of this variety in the boxes below. 1. PLANT TYPE: 40 = CRISPHEAD 30 = COS . 41 = IMPERIAL GROUP 31 = SELF-CLOSING 10 = CUTTING (Leaf) 3 20 = STALK GROUP 42 = GREAT LAKES GROUP 50 = BUTTERHEAD 60 = LATIN 32 = LOOSE-CLOSING 43 = VANGUARD GROUP 70 = OTHER (Specify) 44 = NEW YORK GROUP 2. SEED COLOR: 3. ANTHOCYANIN: 1 = WHITE 2 = BLACK 3 = YELLOW 2 = PRESENT 1 = ABSENT 4. LEAF CONTAINING ANTHOCYANIN: 1 = COVERED 2 = SPOTTED 3 = ALONG MARGIN 4 = ABSENT 5 = OTHER (Specify) 5. LEAF SURFACE TEXTURE: 6. LEAF SURFACE REFLECTANCE: 1 = DULL 1 = SMOOTH2 = BLISTERED 2 = GLOSSY 3 = OTHER (Specify) 7. LEAF MARGIN: 1 = STRAIGHT 2 = WAVY 2 = DENTATE 3 = INCISED 3 = CURLED 4 = DEEPLY INCISED 5 = OTHER (Specify) 8. LEAF SHAPE: slightly 2 = LONGER BROADER 1 = ROUNDED 2 = POINTED 3 = OTHER (Specify) THAN LONG THAN BROAD 9. LEAF COLOR: (See reverse.) 2 = REDDISH-BROWN 3 = YELLOW 4 = YELLOWISH-GREEN 5 = GREYISH-GREEN 5\_7 6 = BLUE-GREEN 7 = DARK-GREEN 8 = VERY DARK GREEN 10. HEADS: 11. PLANT SIZE: (See reverse.) 1 = SPHERICAL 2 = FLATTENED 3 = ELONGATE 1 = SMALL 2 = MEDIUM 3 = LARGE 4 = POINTED 5 = NON-HEADING 12. CULTURE: 3 = NOT 1 = SUMMER CROP 2 = WINTER 4 = UNDER GLASS 5 = OTHER (Specify) Spring: Pacific Coast SPECIFIC 13. SIZE OF 10-DAY OLD SEEDLING GROWN UNDER CONSTANT LIGHT (Growth Chamber) AT 25° C.: (Place a zero in first box (i.e. 0 2 ) when size is 9 mm. or less.) 3 5 mm. LENGTH OF SEEDLING 0 mm. LENGTH OF COTYLEDON mm. WIDTH OF COTYLEDON 14. DISEASE RESISTANCE TO: (Enter zeroes in box(es) where there is no special disease resistance.) 0 3 = DAMPING OFF 1 = TIPBURN 0 2 = MOSAIC 4 4 = DOWNY MILDEW 5 = SCLEROTINIA 8 = OTHER (Specify) 0 7 = BIG VEIN

15. OUTLINE THE FOURTH LEAF: (For standardization purposes, the fourth leaf should be taken from a 20-day old plant grown under constant light.)